SYSTEM 8/10 Plus
PROJECTOR COMMUNICATIONS KIT

ATTENTION!

PLEASE READ THIS DOCUMENT FOR IMPORTANT INSTALLATION INSTRUCTIONS

THIS KIT HAS BEEN SHIPPED WITH THE FOLLOWING COMPONENTS:

Kit Type: AMPRO

Included Communications Adapter(s):

Quantity	Part Number	Description
1	26-477-01	ADP, UNV, “H”
1	26-304-01	ADP, AMPRO CRT
1	26-468-01	ADP, UNV, “B”
1	26-467-01	ADP, UNV, “A”

THE TABLE BELOW LISTS THE POSSIBLE CONFIGURATION(S) AND CORRESPONDING COMMUNICATIONS ADAPTER(S) FOR YOUR PROJECTOR MANUFACTURER’S VARIOUS MODELS. **PLEASE NOTE THAT YOUR SWITCHER HAS BEEN CONFIGURED AS INDICATED BY THE “✔” IN THE “Config as” COLUMN.** IF YOUR PROJECTOR MODEL **DIFFERS** FROM THIS CONFIGURATION, YOU **MUST** RECONFIGURE YOUR SWITCHER WITH THE CORRECT SETTINGS.

PLEASE REFER TO THE FOLLOWING PAGES FOR COMPLETE CONFIGURATION AND SIGNAL CONNECTION INSTRUCTIONS.

THIS SWITCHER HAS BEEN CONFIGURED FOR: AMPRO CRT

Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro LCD-150	0	0	0	B	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	<none>
✔	Ampro CRT	0	1	5	1	J2	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓	26-304-01
	Ampro 160	0	0	F	F	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	26-477-01
	Ampro Light Valve	0	1	5	1	J2	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓	26-468-01
	Ampro Alice	0	1	5	1	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	26-467-01

Ampro LCD-150 Projector Configuration

Verify that the System 8/10 PLUS is already configured for the Ampro LCD-150 projector. The general setup is explained on page 3-4 and the switch settings for the projector are repeated below.

1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the configuration information.

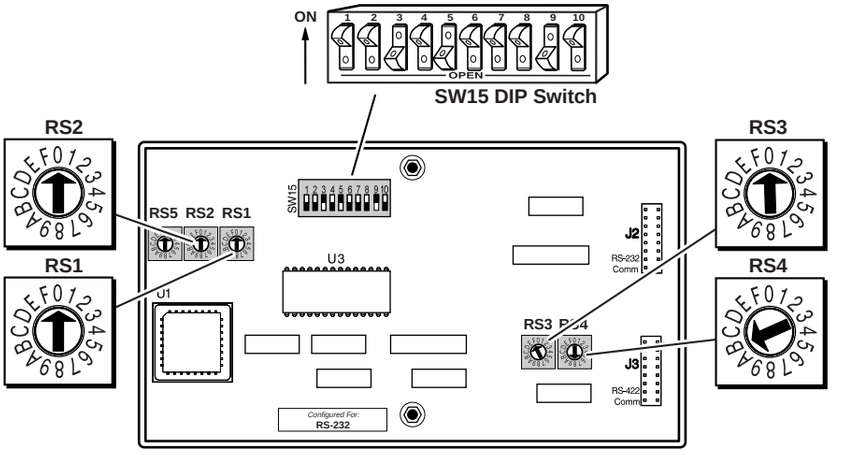
Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

2. Set the switches as follows:

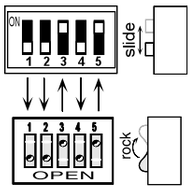
Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro LCD-150	0	0	0	B	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	<none>

*_ When connecting the projector for Video Loopback (VLB) operation: SW15, DIP switch #8 must be **Down**. See page 3-4 for switch description, and page 2-10 for VLB operation.*

RS5 is for RGB switching delay. See page 3-4 for more information on switch functions.



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro LCD-150”.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See illustration to the left.

Use the illustration on the facing page to do the following steps.

5. Connect the Comm Adapter’s 15-pin male connector to the 15-pin female “REMOTE” connector on the side panel of the projector.

6. Connect the CC-50' (or CC-100') cable from the 15-pin male connector of the Comm Adapter to the 15-pin HD “Projector Control” port located on the rear panel of the System 8/10 PLUS.

Secure the screws on all D connectors.

7. Connect the BNC (RGBS) cables from the System 8/10 PLUS outputs to the Ampro LCD-150 projector’s “RGB1 INPUT” according to the application requirements.

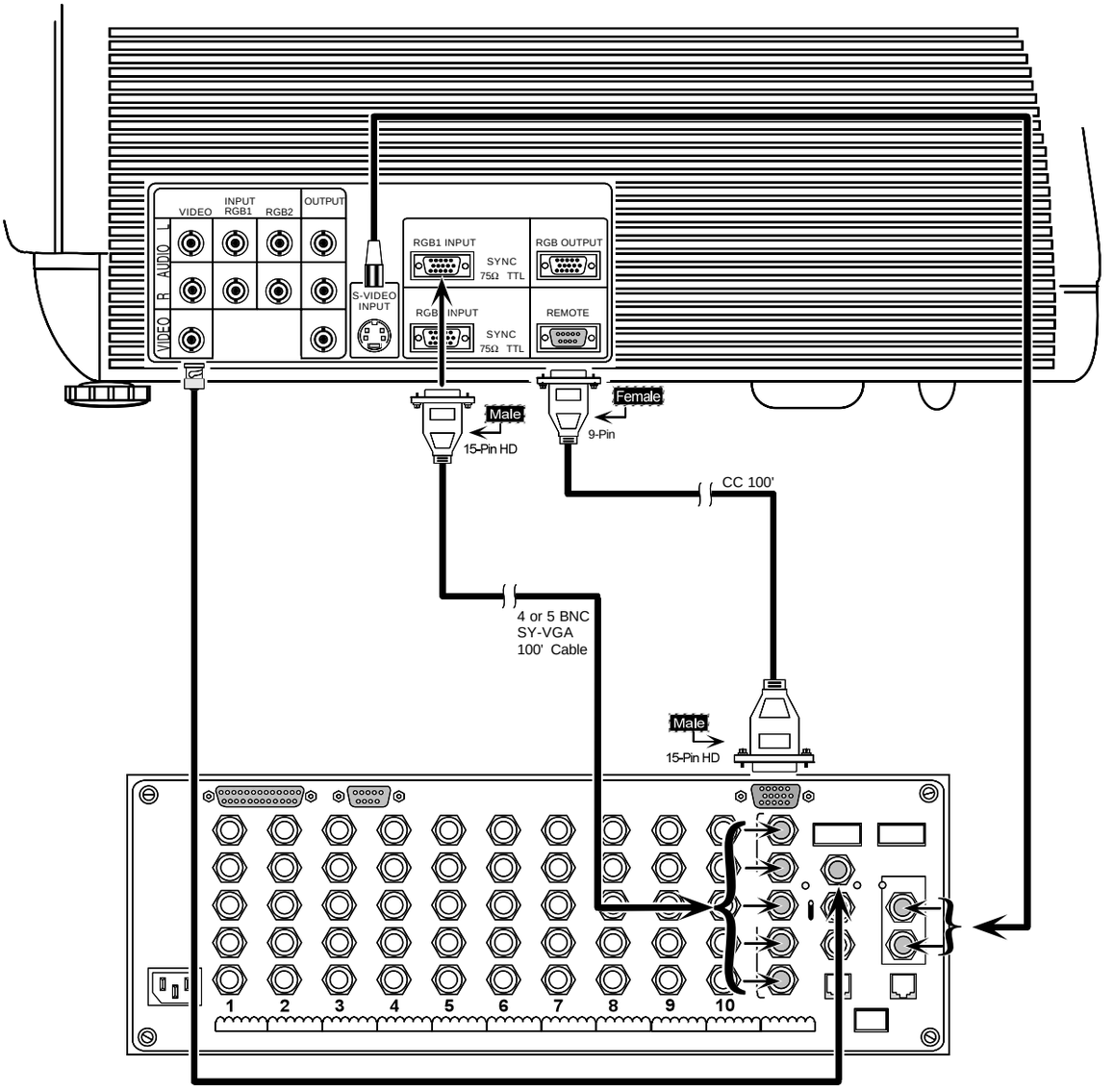
MAIN POWER

8. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

9. Return System 8/10 PLUS and projector to normal operation.

Ampro LCD-150 Projector Connections

Use the illustration below when connecting the System 8/10 PLUS to a Ampro LCD-150 projector. Refer to Ampro documentation to continue the installation.



If the installation includes looping (master/slave) switchers, see Chapter 5. If Video Loop Back is part of the installation, see pages 2-10 and 2-11.

Ampro CRT Projector Configuration

There are two adapters included with the Ampro kit; this configuration uses the one marked “26-304-01”. Some Ampro projectors do not have a port for switcher communications, therefore the switcher must “intercept” all commands sent to the projector. This is done by connecting the Ampro Comm Adapter to the “Host” port on the projector rear panel.

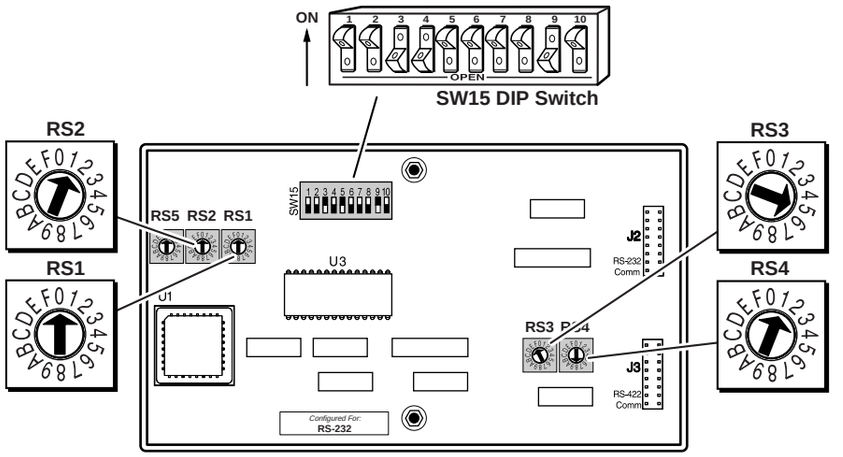
Check to see if the System 8/10 PLUS is already configured for the Ampro projector. The general setup is explained on page 3-4 and the switch settings for the Ampro are repeated below.

1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the switch configuration information.

Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

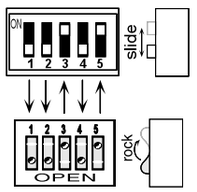
2. Set the switches as follows:

Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
✔	Ampro CRT	0	1	5	1	J2	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓	26-304-01



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro CRT”.

If the projector is operating in Executive mode, set SW15, switch #7 to the Off position; turn it On if not in Executive mode.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See picture to the left.

Use the illustration on the facing page to do the following steps.

5. Plug the Comm Adapter’s 15-pin male connector into the “Host” connector on the rear panel of the Ampro projector.

6. Plug the 9-pin male connector of the Comm Adapter into the female connector on the CC-50' (or CC-100'). Plug the other end of the CC-50' cable (15-pin HD) to the “Projector Control” port located on the back of the System 8/10 PLUS.

7. Plug the adapter’s remaining connector (15-pin female) onto the Ampro Remote.

_____ *Secure the screws on all D connectors.*

8. Connect the BNC cables from the System 8/10 PLUS outputs to the projector inputs according to the application requirements. (RGBS, S-Video and/or Composite Video)

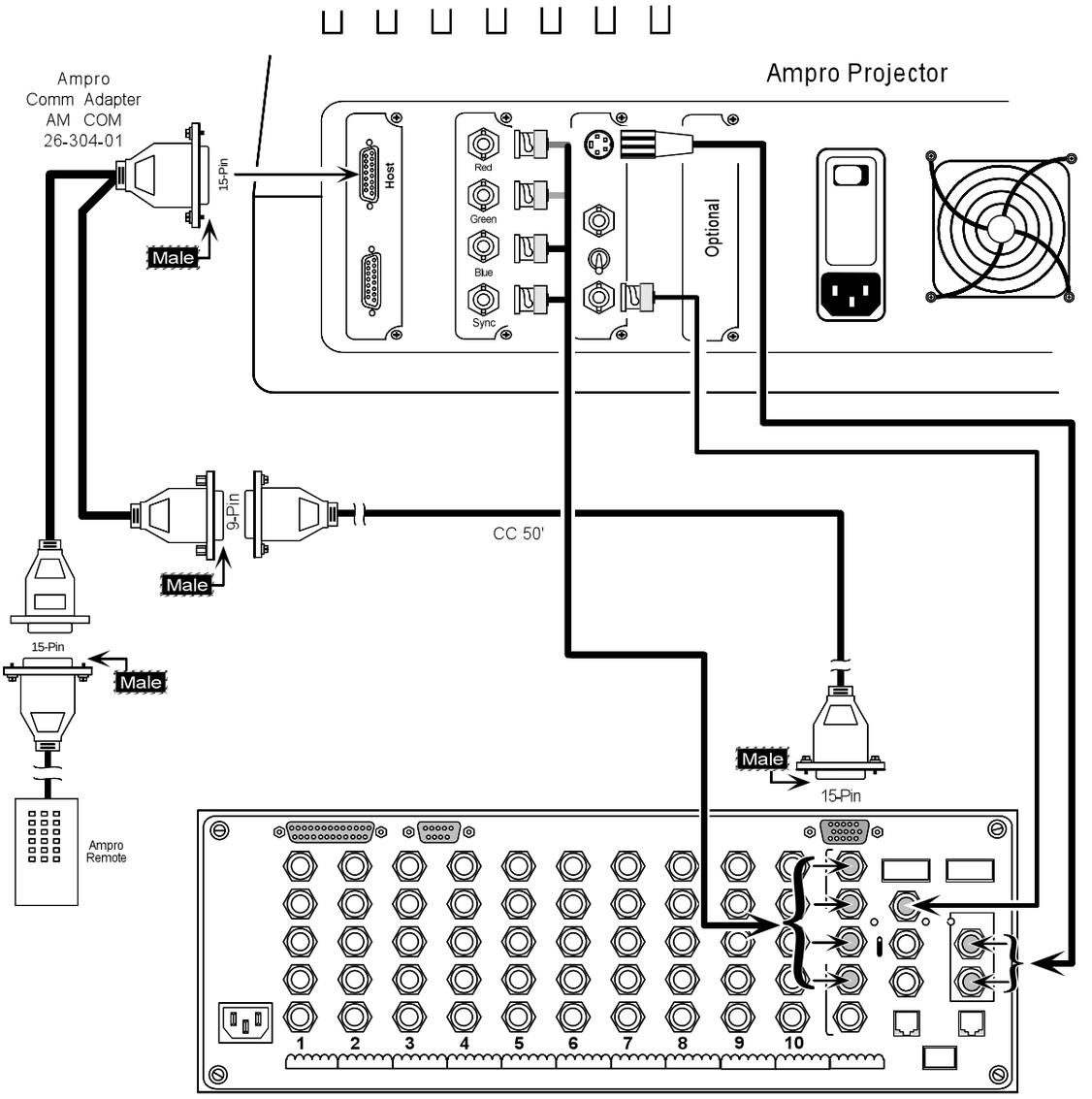
MAIN POWER

9. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

10. Return System 8/10 PLUS and projector to normal operation.

Ampro CRT Projector Connections

Use the illustration below when connecting the System 8/10 PLUS to an Ampro projector. Refer to Ampro documentation to continue the installation.



_____ *The comm adapter must be connected to the switcher before the hand-held remote or IR receiver will work.If the installation includes looping (master/slave) switchers, see Chapter 5.*
If Video Loop Back is part of the installation, see pages 2-10 and 2-11.

Ampro Type II (CRT) Projector Configuration

There are two adapters included with the Ampro kit, unless the Type II adapter was requested. It is marked “26-322-01”. Some Ampro projectors do not have a port for switcher communications, therefore the switcher must “intercept” all commands sent to the projector. This is done by connecting the Ampro Comm Adapter to the “Host” port on the projector rear panel.

Check to see if the System 8/10 PLUS is already configured for the Ampro projector. The general setup is explained on page 3-4 and the switch settings for the Ampro projector are repeated below.

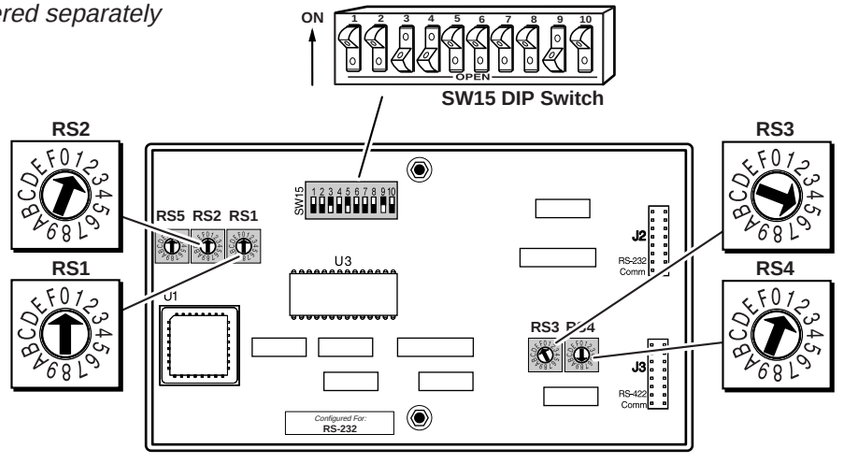
1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the switch configuration information.

Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

2. Set the switches as follows:

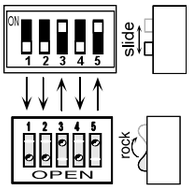
Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro Type II	0	1	5	1	J2	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓	26-322-01

** Type II Comm Adapter must be ordered separately*



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro Type II”.

If the projector is operating in Executive mode, set SW15, switch #7 to the Off position; turn it On if not in Executive mode.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See picture to the left.

Use the illustration on the facing page to do the following steps.

5. Plug the Comm Adapter’s 15-pin male connector into the CC-50' (or CC-100') cable. Plug the 15-pin male connector of the adapter into the “Host” connector on the rear panel of the Ampro projector.

6. Plug the 15-pin HD male connector of the Comm Adapter into the “Projector Control” port located on the rear panel of the System 8/10 PLUS.

7. Plug the Ampro Remote into the adapter’s remaining 15-pin female connector.

_____ *Secure the screws on all D connectors.*

8. Connect the BNC cables from the System 8/10 PLUS outputs to the projector inputs according to the application requirements. (RGBS, S-Video and/or Composite Video)

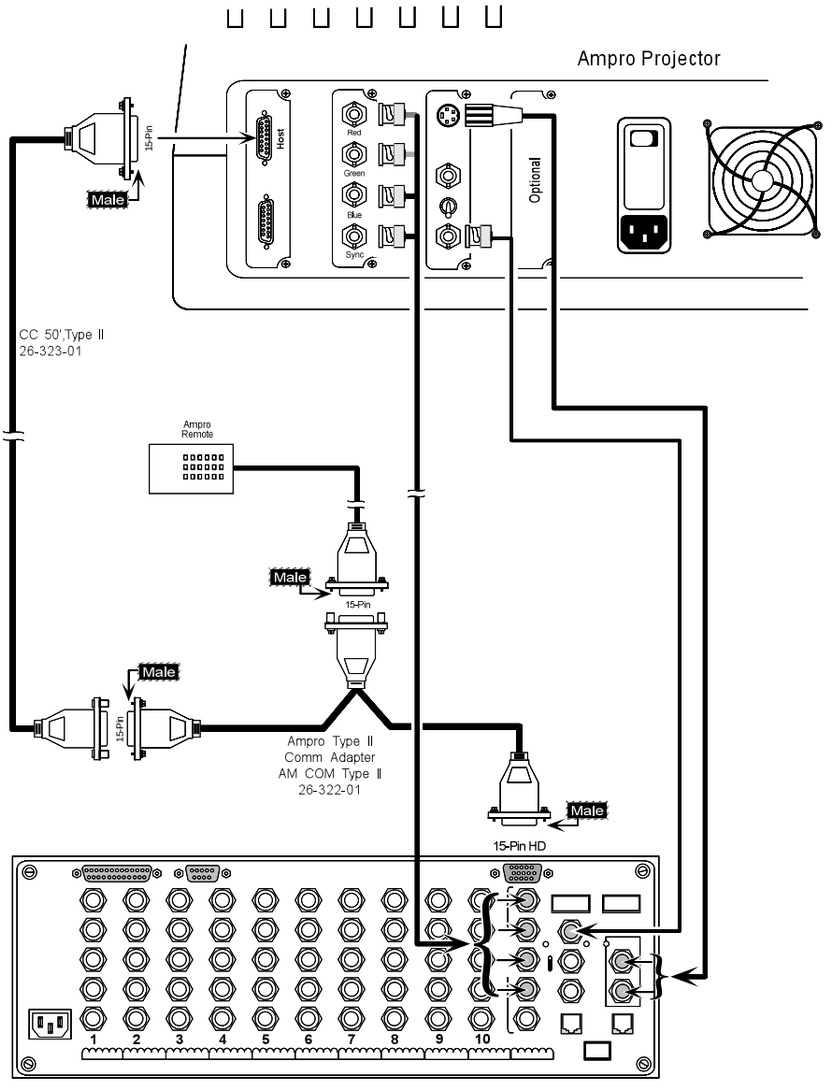
MAIN POWER

9. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

10. Return System 8/10 PLUS and projector to normal operation.

Ampro Type II (CRT) Projector Connections

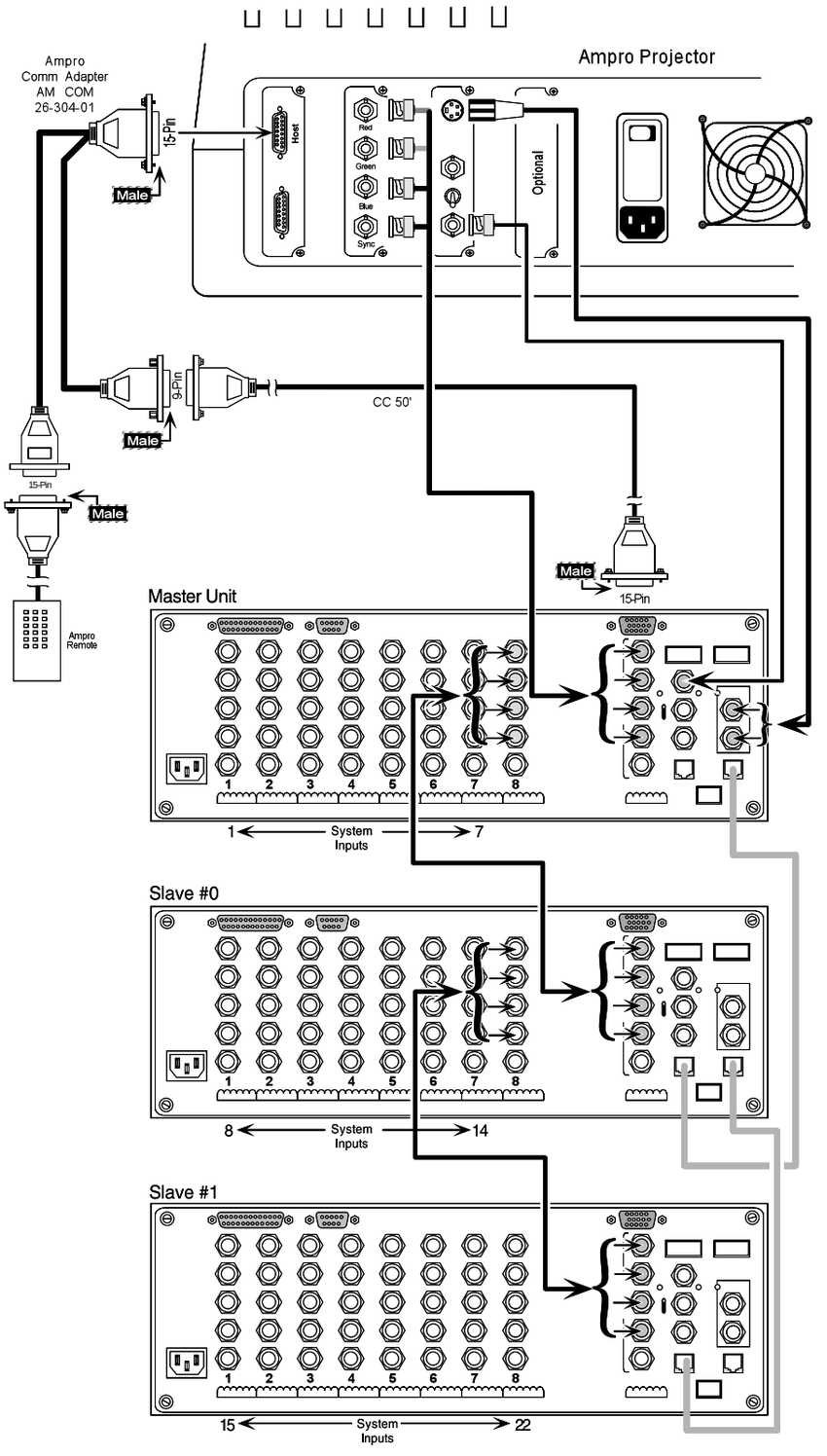
Use the illustration below when connecting the System 8/10 PLUS to an Ampro projector. Refer to Ampro documentation to continue the installation. See page 3-2 for a description of the CC 50' Type II cable.



_____ *The comm adapter must be connected to the switcher before the hand-held remote or IR receiver will work. If you wish, you can make your own communications cables see page 3-2.*
If the installation includes looping (master/slave) switchers, see Chapter 5.
If Video Loop Back is part of the installation, see pages 2-10 and 2-11.

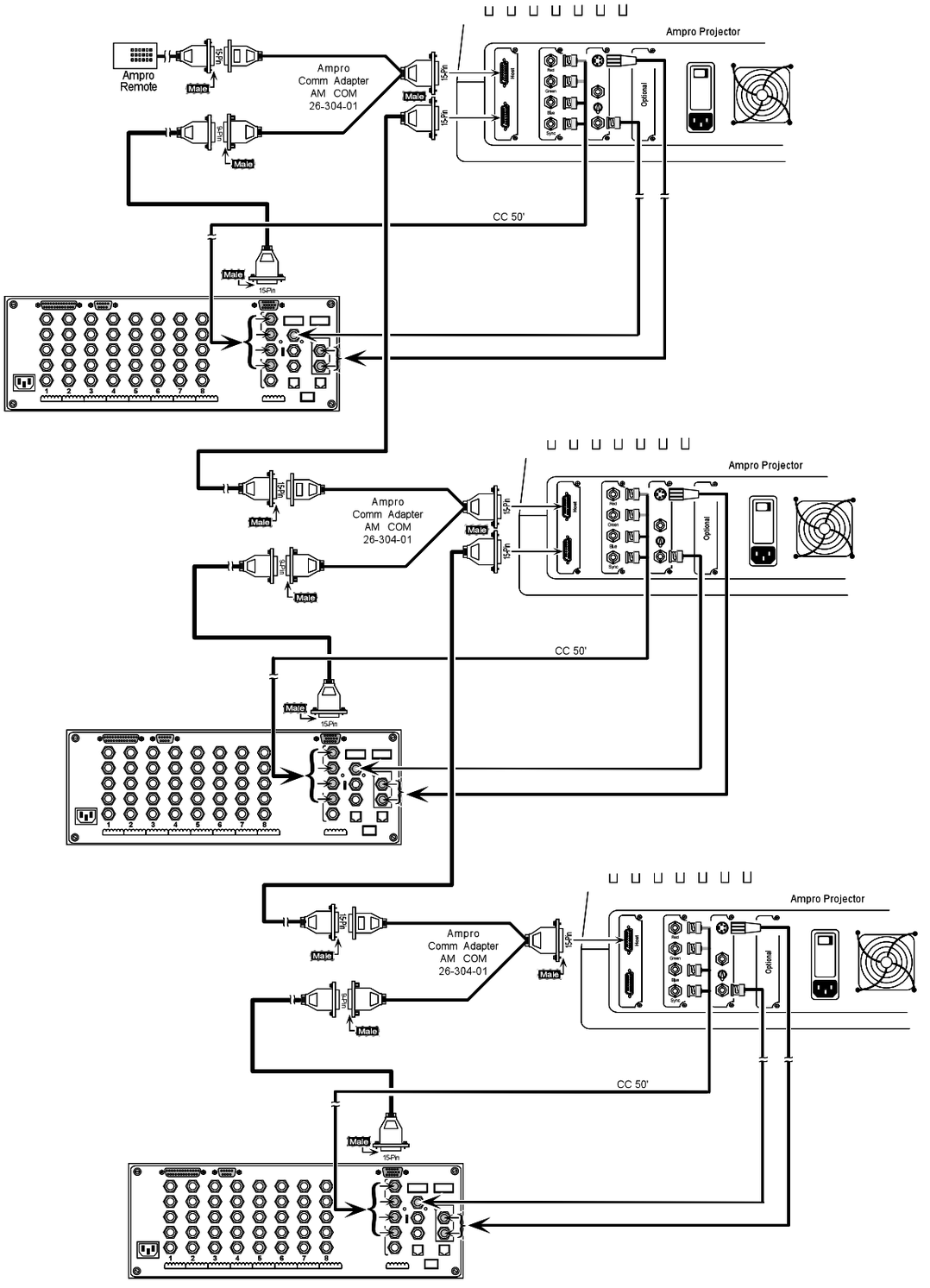
Ampro Connection - Multiple Switchers/Single Projector

Refer to the illustration below for connecting multiple System 8/10 PLUS switchers to a single Ampro projector. Additional looping instructions are included in Chapter 5. Only one switcher (the Master) communicates with the projector. The Master Switcher is also the only switcher that supplies video signals to the projector. There must not be any other connections between the EP Comm Adapter and the projector.



Ampro Connection - Multiple Switchers/Multiple Projectors

Ampro projectors have duplex RS-232 communications, allowing multiple projectors to be addressed and controlled by one control device. Each projector has a separate switcher to provide source selection. Switchers and projectors must have corresponding unit numbers for proper system operation, that is, projector #00 receives input from switcher #01, projector #01 from switcher #02, etc. See the illustration below.



Ampro Light Valve Projector Configuration

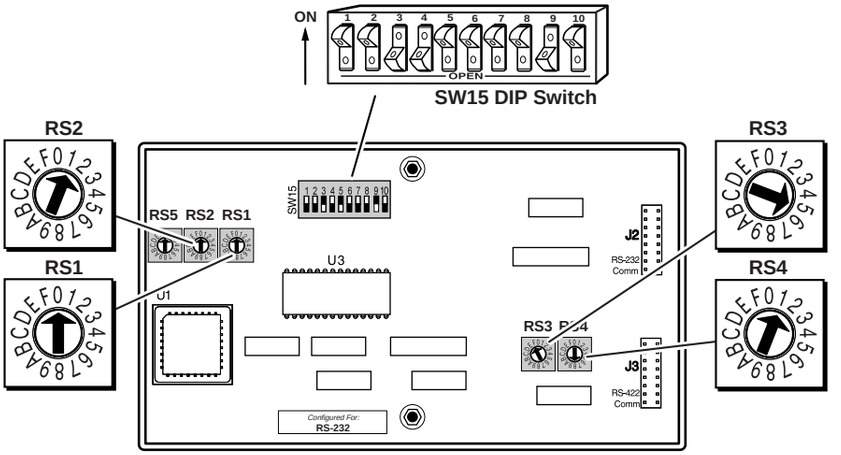
Check to see if the System 8/10 PLUS is already configured for the Ampro projector. The general setup is explained on page 3-4 and the switch settings for the Ampro projector are repeated below.

1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the switch configuration information.

Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

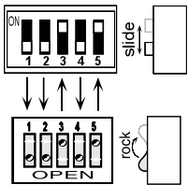
2. Set the switches as follows:

Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro Light Valve	0	1	5	1	J2	↓	↓	↑	↑	↓	↓	↓	↓	↑	↓	26-468-01



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro Light Valve”.

_ RS5 is for RGB switching delay. See page 3-4 for more information on switch functions. Notice that SW15, position #7 is “up”. This is different from the other Ampro configurations and is not shown on the label on the back of the Access Cover.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See picture to the left.

Use the illustration on the facing page to do the following steps.

5. Plug the Comm Adapter’s 9-pin female connector onto the male connector on the rear panel of the Ampro Light Valve projector. The name on the connectors may be different from one projector to another.

Secure the screws on all D connectors.

6. Connect the BNC cables from the System 8/10 PLUS outputs to the projector inputs according to the application requirements. (RGBS, S-Video and/or Composite Video)

MAIN POWER

7. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

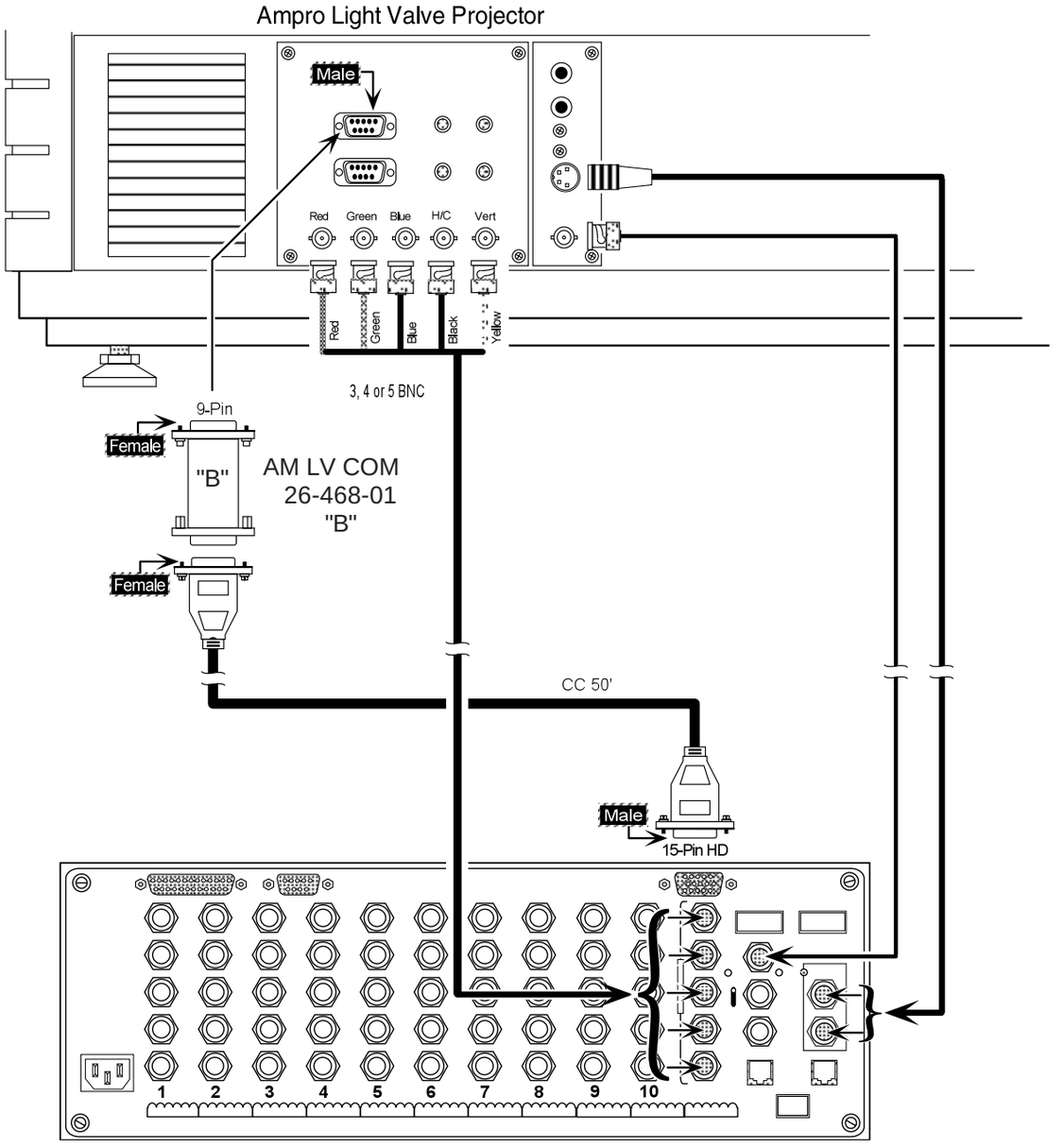
8. Turn on the projector and select “switcher” from the Projector Mode Menu.

   Select “switcher enable” and follow the setup instructions in your Ampro User manual.

9. Return System 8/10 PLUS and projector to normal operation.

Ampro Light Valve Projector Connections

Use the illustration below when connecting the System 8/10 PLUS to an Ampro Light Valve projector. Refer to Ampro documentation to continue the installation.



If the installation includes looping (master/slave) switchers, see Chapter 5. If Video Loop Back is part of the installation, see pages 2-10 and 2-11.

Ampro 160 Projector Configuration

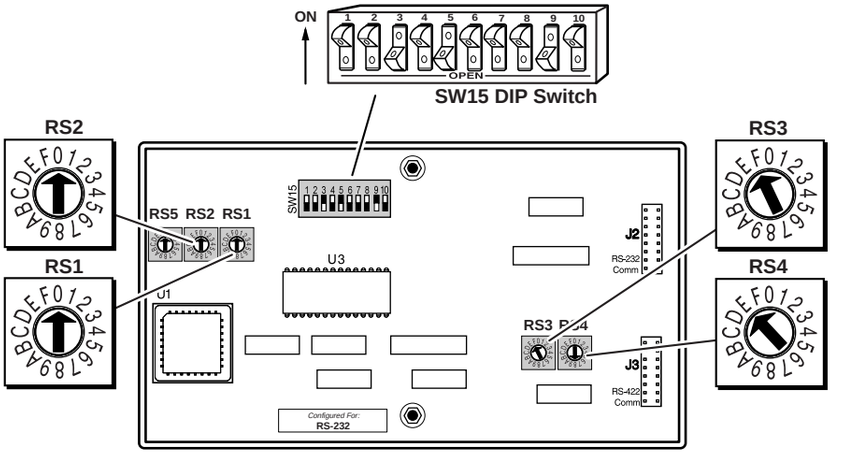
Check to see if the System 8/10 PLUS is already configured for the Ampro 160 projector. The general setup is explained on page 3-4 and the switch settings for the projector are repeated below.

1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the configuration information.

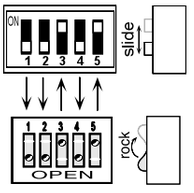
Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

2. Set the switches as follows:

Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro 160	0	0	F	F	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	26-477-01



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro 160”.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See illustration to the left.

Use the illustration on the facing page to do the following steps.

5. Connect the Comm Adapter’s 9-pin male connector to the 9-pin female “RS-232C” connector on the rear panel of the projector.

6. Connect the CC-50' (or CC-100') cable from the 9-pin male connector of the Comm Adapter to the 15-pin HD “Projector Control” port located on the rear panel of the System 8/10 PLUS.

Secure the screws on all D connectors.

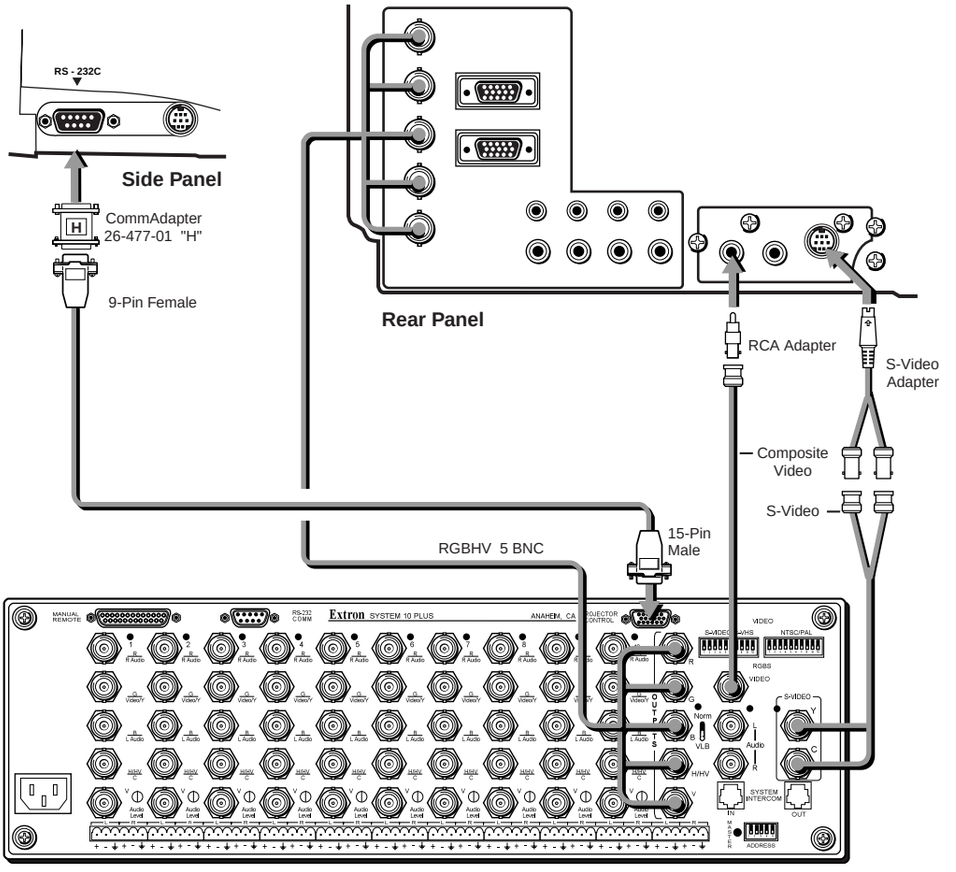
7. Connect the BNC (RGBS) cables from the System 8/10 PLUS outputs to the EPS projector inputs according to the application requirements.

8. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

9. Return System 8/10 PLUS and projector to normal operation.

Ampro 160 Projector Connections

Use the illustration below when connecting the System 8/10 PLUS to an Ampro 160 projector. Refer to Ampro documentation to continue the installation.



If the installation includes looping (master/slave) switchers, see Chapter 5. If Video Loop Back is part of the installation, see pages 2-10 and 2-11.

Ampro Alice Projector Configuration

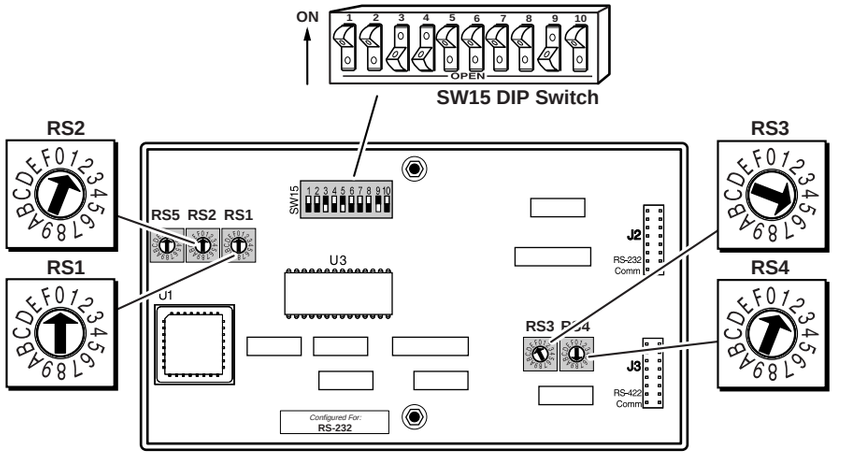
Check to see if the System 8/10 PLUS is already configured for the Ampro projector. The general setup is explained on page 3-4 and the switch settings for the Ampro Alice projector are repeated below.

1. Use a small screwdriver to remove the access cover from the System 8/10 PLUS front panel. See bottom of page 3-3. The label on the back of the access cover also has the switch configuration information.

Before changing anything, remove the AC power cord to the System 8/10 PLUS to verify that the main power is OFF; also turn the projector power OFF.

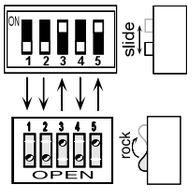
2. Set the switches as follows:

Config as	Model	Rotary Switches				Cable	SW15 Settings										Comm Adapter
		RS1	RS2	RS3	RS4	J2/J3	1	2	3	4	5	6	7	8	9	10	
	Ampro Alice	0	1	5	1	J2	↓	↓	↑	↓	↑	↓	↓	↓	↑	↓	26-467-01



3. Use a grease pencil (or other rub-off marker) to mark the space on the label next to “Ampro Alice”.

RS5 is for RGB switching delay. See page 3-4 for more information on switch functions.
Notice that SW15, position #7 is “up”. This is different from the other Ampro configurations and is not shown on the label on the back of the Access Cover.



4. Locate the switcher’s Address DIP switches on the rear panel, lower right. Unless this is part of a master/slave system, set #3 and #5 to the up position and the others down. See picture to the left.

Use the illustration on the facing page to do the following steps.

5. Plug the Comm Adapter’s 9-pin female connector onto the male connector on the rear panel of the Ampro Alice projector. The name on the connectors may be different from one projector to another.

Secure the screws on all D connectors.

6. Connect the BNC cables from the System 8/10 PLUS outputs to the projector inputs according to the application requirements. (RGBS, S-Video and/or Composite Video)

7. Apply Main Power to the System 8/10 PLUS by connecting the power cord. The Main Power LED should light. Apply power to the projector.

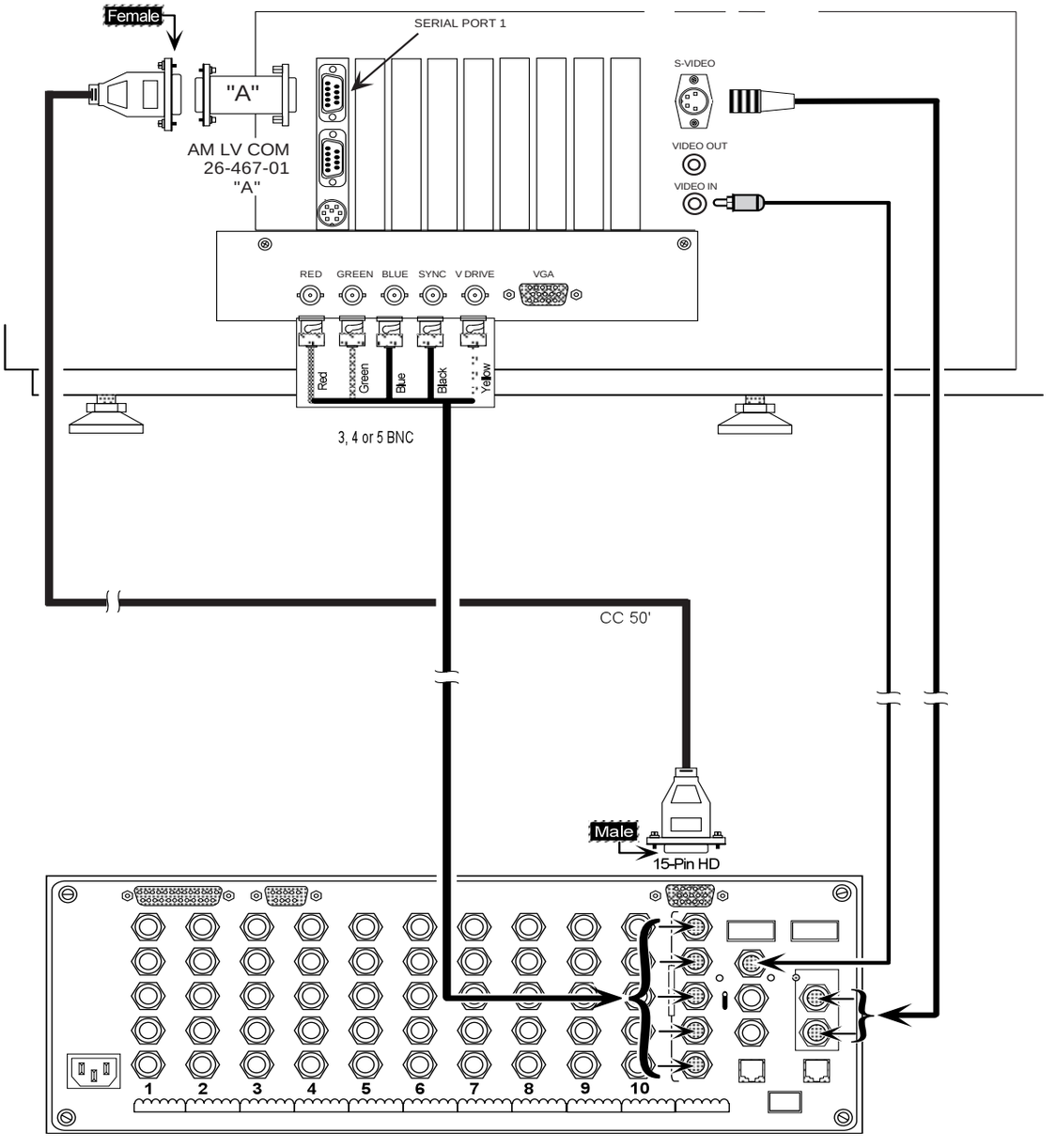
8. Turn on the projector and select “switcher” from the Projector Mode Menu.

   Select “switcher enable” and follow the setup instructions in your Ampro User manual.

9. Return System 8/10 PLUS and projector to normal operation.

Ampro Alice Projector Connections

Use the illustration below when connecting the System 8/10 PLUS to an Ampro Alice projector. Refer to Ampro documentation to continue the installation.



If the installation includes looping (master/slave) switchers, see Chapter 5. If Video Loop Back is part of the installation, see pages 2-10 and 2-11.